REMARKS

Applicant respectfully requests reconsideration and allowance of all of the claims

of the application. The status of the claims is as follows:

Claims 1-3, 14, 15, 19, 20, 22 and 26 are currently pending.

• Claims 1, 14, 20, and 22 are amended herein.

Support for the amendments to claims 1, 14, 20, and 22 is found in the

specification, as originally filed, at least at paragraphs [0018] and [0030]. The

amendments submitted herein do not introduce any new matter.

Claims 1-3 Recite Statutory Subject Matter Under § 101

Claims 1-3 stand rejected under 35 U.S.C. § 101 as allegedly being directed to

non-statutory subject matter. Applicant respectfully traverses this rejection.

Applicant has explicitly defined "computer storage medium" to exclude signals

and carrier waves. In paragraph [0055], which defines "computer storage media,"

Applicant states:

"Computer storage media" include volatile and non-volatile, removable and non-removable media implemented in any method or

emovable and non-removable media implemented in any method of

technology for storage of information such as computer readable instructions, data structures, program modules, or other data. Computer

storage media includes, but is not limited to, RAM, ROM, EEPROM, flash

memory or other memory technology, CD-ROM, digital versatile disks

(DVD) or other optical storage, magnetic cassettes, magnetic tape,

magnetic disk storage or other magnetic storage devices, or any other medium which may be used to store the desired information and which

may be accessed by a computer

In contrast, Applicant defines "communication media" in paragraph [0056] to

include carrier waves and signals. While both computer storage media and

communication media are examples of computer-readable media (see paragraph

[0054]), Applicant clearly distinguishes between them by providing separate definitions

that do not overlap in their scope. Also, by previously amending claim 1 from reciting

"computer-readable media" to "computer storage media," Applicant is clearly narrowing

the claim to exclude communication media such as carrier waves and signals. Thus, if

the claim language is interpreted in light of Applicant's Specification and the explicit

definitions provided therein, then "computer storage media" must be interpreted as

excluding signals.

Applicant also respectfully requests that the Examiner point to the legal

basis/authority used by the Examiner for requiring the Applicant to add "non-transitory"

to the claims.

For at least the above reasons, Applicant respectfully requests that the § 101

rejection of claims 1-3 be withdrawn.

Claim 20 Complies With § 112, 1st Paragraph

Claim 20 stands rejected under 35 U.S.C. § 112, ¶ 1, as allegedly failing to

comply with the written description requirement. Applicant respectfully traverses this

rejection.

More specifically, the Examiner notes that the terms "first generating means,"

"second generating means," "registering means," and "third generating means" lack

sufficient support to meet the written description requirement. In response, Applicant

Serial No.: 10/716,998 Atty Docket No.: MS1-1733US Atty/Agent: Robert C. Peck directs the Examiner's attention to: paragraph [0033] of Applicant's specification, which

describes an application signaling generator 130 that performs the acts claimed as

being performed by the first generating means; paragraph [0035] of Applicant's

specification, which describes a CRID generator 150 that performs the acts claimed as being performed by the second generating means; paragraph [0035] of Applicant's

being performed by the second generating means, paragraph [0000] of Applicants

specification, which describes a RAR generator 152 that performs the acts claimed as

being performed by the registering means; and paragraph [0047] of Applicant's

specification, which describes an application signaling generator 130 that performs the

acts claimed as being performed by the third generating means.

Accordingly, Applicant respectfully submits that the claimed means find sufficient

support in Applicant's specification to meet the written description requirement, and

Applicant requests that the rejection of claim 20 be withdrawn.

Cited Documents

The following documents have been applied to reject one or more claims of the

Application:

Carlucci: Carlucci et al., U.S. Patent Application Publication No. 2004/0015999

• MacInnis: MacInnis, Alexander G., U.S. Patent Application Publication No.

2003/0028899

Eval: Eval, Aviv, U.S. Patent No. 6,484,199

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Claims 1-3, 14, 15, 19, 20, 22 and 26 Are Non-Obvious Over Carlucci in View

of MacInnis in Further View of Eyal

Claims 1-3, 14, 15, 19, 20, 22 and 26 stand rejected under 35 U.S.C. § 103(a) as

allegedly being obvious over Carlucci in view of MacInnis in further view of Eyal.

Applicant respectfully requests reconsideration in light of the amendments presented

herein.

Independent Claim 1

Claim 1, as amended herein, recites, in part:

receiving from a content provider, by head-end equipment using

an extended asset definition interface a digital television (DTV) application and its associated metadata, wherein the extended asset

definition interface specifies a data structure including the DTV application

and metadata attributes consisting of:

an application identifier field for identifying the DTV

application;

an originator identifier field for identifying an originator of the

DTV application;

an application-type field for indicating a type of the DTV application and specifying a runtime environment needed to run

the DTV application:

a profile field for indicating a minimum profile of a system on

which the DTV application will execute;

a visibility field for indicating the degree of control a user has

over the DTV application;

a permission field for denoting "sandbox" security permission of the DTV application; and

Bit application, and

a rating field for indicating a rating of the DTV application;

generating, by the head-end equipment, an application information table for conveying application signaling information to a DTV receiving unit, the application information table being generated based on the associated metadata:

generating, by the head-end equipment, a content referencing identifier for the DTV application;

registering, by the head-end equipment, an authority record with an authority to enable the DTV receiving unit to resolve the content referencing identifier:

generating, by the head-end equipment, a data grouping having the application information table and the content referencing identifier;

sending, by the head-end equipment, a transmission to the DTV receiving unit, wherein such transmission comprises the data grouping, whereby the application signaling information is used by the DTV receiving unit to discover and launch the DTV application,

wherein the head-end equipment, the content provider, and the DTV receiving unit are each separate and distinct from each other, and

wherein the extended asset definition interface is defined to correspond to information that an application signaling generator of the head-end equipment needs to generate the application information table

In rejecting claim 1, the Examiner cites paragraphs 50-52 of Carlucci as describing the receiving of data, by a head-end, from a provider. No mention is made in those passages, however, or in any other passages of the cited documents, of "receiving ... using an extended asset definition interface", as is claimed in amended claim 1. Rather, data is simply described as being received and no reference is made to any sort of specific interface, much less to the claimed extended asset definition interface. The Examiner equates the claimed extended asset definition interface to the receiver 78 in Fig. 5a of Carlucci. The receiver 78 is further discussed in paragraph 87

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of Carlucci as being one or more satellite dishes and as coupling received signal

streams to a head-end processor. No mention is made, however, of the receiver 78

"specifying a data structure." Because claim 1 requires the extended asset definition

interface to specify a data structure, the receiver 78 of Carlucci cannot possibly teach or

suggest the extended asset definition interface. The other cited documents, which are

cited for different features of claim 1, do not cure this deficiency. And because neither

Carlucci nor any other cited document teaches or suggests the claimed extended asset

definition interface, the combined cited documents simply cannot teach or suggest using

such an interface to perform the act of receiving.

The Examiner then proceeds in the rejection to cite various portions of Carlucci

as disclosing the fields of the data structure specified by the claimed extended asset

definition interface, such as the application identifier field, etc. The portions cited as

disclosing these fields, such as paragraph 56 of Carlucci, describe data included in the

transmitted content stream received by the head-end of Carlucci. They do not,

however, describe fields of a data structure specified by an extended asset definition

interface. As mentioned above, Carlucci simply does not describe any such extended

asset definition interface or data structure specified by that interface.

Also in rejecting claim 1, the Examiner points to the PIC of paragraph 56 of

Carlucci as describing the "application-type field for indicating a type of the DTV

application." The PIC is described as identifying a program or program segment. No

mention, however, is made of the PIC or anything else which identifies a type of the

DTV application. Applicant made this same point in the previous response and the

Examiner has again cited the same paragraph of Carlucci without addressing

Serial No.: 10/716,998 Atty Docket No.: MS1-1733US Atty/Agent: Robert C. Peck Applicant's argument. Applicant respectfully requests that the Examiner address this

argument.

Additionally, in rejecting claim 1, the Examiner points to paragraphs 26 and 27 of

MacInnis as teaching that, "the extended asset definition interface is defined to

correspond to information that an application signaling generator of the head-end

equipment needs to generate the application information table." The Examiner further

states that these passages describe, "using received metadata from the content

provider to generate tables at the head end." Paragraphs 26 and 27, however, make no

mention of generating tables at the head end. Rather, they merely mention receiving

such tables. And since paragraphs 26 and 27 do not mention generating tables, they

consequently cannot (and do not) mention the use of received metadata from a content

provider. In fact, no mention is made of metadata from a content provider anywhere in

MacInnis.

Further, even if MacInnis were to suggest, "using received metadata from the

content provider to generate tables at the head end", this still would not teach or

suggest the claimed recitation which, again, is: "the extended asset definition interface

is defined to correspond to information that an application signaling generator of the

head-end equipment needs to generate the application information table." No mention

is made of anything that teaches or suggests an extended asset definition interface, or

the defining of such an interface based on information needed to generate a table.

Simply describing a table of requirements, as MacInnis does, is not sufficient to suggest

the defining of an interface corresponding to that table. Thus, MacInnis simply does not

teach or suggest, "the extended asset definition interface is defined to correspond to

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information that an application signaling generator of the head-end equipment needs to

generate the application information table", as claimed in claim 1.

For at least the reasons presented herein, the cited documents do not teach or

suggest all of the features of claim 1. Accordingly, Applicant respectfully requests that

the Office withdraw the 103 rejection of claim 1.

Independent Claims 14, 20, and 22

Claims 14, 20, and 22 are patentable over the cited documents at least for

reasons similar to those provided above with regard to claim 1.

Dependent Claims 2, 3, 15, 19, and 26

Claims 2, 3, 15, 19, and 26 each ultimately depend from one of independent

claims 1, 14, and 22. As discussed above, claims 1, 14, and 22 are allowable over the

cited documents. Therefore, claims 2, 3, 15, 19, and 26 are also allowable over the

cited documents of record for at least their dependency from an allowable base claim,

and also for the additional features that each recites.

Accordingly, Applicant respectfully requests that the Office withdraw the 103

rejection of claims 2, 3, 15, 19, and 26.

Conclusion

For at least the foregoing reasons, all pending claims are in condition for allowance. Applicant respectfully requests reconsideration and prompt issuance of the application.

If any issues remain that would prevent allowance of this application, <u>Applicant</u> requests that the Examiner contact the undersigned representative before issuing a subsequent Action.

Respectfully Submitted,

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Dated: 9/21/2010